TROUBLESHOOTING

| Problem: | Possible cause: | Solutions: |
|---|--|---|
| Gate does not lock | No power | Check to make sure the wires are secure Check that the power supply is connected and operating Make sure the unit is wired correctly |
| Gate locks, but can be easily forced open | Poor contact between electromagnet and armature plate | Make sure the electromagnet and armature plate are properly aligned Make sure the contact surfaces of the electromagnet and armature plate are clean and free from rust |
| | Incorrect voltage setting | Check the power leads with a meter, and make sure the correct voltage is present |
| Delay in gate releasing | A secondary diode was installed across the electromagnet | The electromagnet is fitted with a metal oxide varistor to prevent interference, so do not install a secondary diode |

REGULAR MAINTENANCE

- · Clean the contact surfaces of the electromagnet or armature plate with a soft cloth and non-abrasive, non-corrosive cleaner.
- · Apply a light coat of a silicon lubricant to both contact surfaces and wipe away the excess to prevent rust.
- Check that the armature plate is securely attached to the bracket, yet can pivot slightly around the armature screw.
- · Check that the electromagnet is securely attached to the bracket.

UL CERTIFICATION Electromagnetic lock only (Model E-942FC-1300/E-942FC-600) conforms to UL/10B "Fire Tests of Door Assemblies" and UL/10C "Positive Pressure Fire Tests of Door Assemblies" for swinging door assemblies. It is also classified in accordance with the Uniform Building Code standard 7-2.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original consumer customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair, or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship.

The sole obligation of SECO-LARM, and the purchaser's exclusive remedy, shall be limited to replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

NOTICE

The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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PITSW1

Website: www.seco-larm.com E-mail: sales@seco-larm.com

Installation Manual

ENFORCER® E-942FC-1 K35Q E-942FC-6005Q

Electromagnetic Lock with Weldable Brackets for Gates



- · For most types of outdoor sliding and swinging electric gates.
- · Includes a magnetic lock with brackets for armature and magnet.
- · Brackets can be welded or bolted directly to gate.
- Holding force: E-942FC-1K3SQ 1,300 pounds (591kg).
 E-942FC-600SQ 600 pounds (272kg).
- · Brackets are zinc-plated for corrosion resistance.
- · Brackets have black finish to match most gates.
- · Water- and vandal-resistant attractive stainless-steel finish.
- · Maintenance-free, factory-sealed design.
- · Fail-safe operation (unlocks door if power is removed).
- · Mounted vertically.
- · Four knockouts on the junction box.
- · Adapter and mounting hardware included.
- Voltage 12VDC or 24VDC. Prewired for 12VDC operation.
- Current draw 500mA @ 12VDC (250mA @ 24VDC).

MOUNTING THE ELECTROMAGNETIC LOCK

A. Determine type of gate:

- Single-swing gate Gate swings on one end, and comes to rest on a fixed gate post when closed. In this
 case, a typical installation has the electromagnet fixed to the gate post, and the armature connected to the free end
 of the gate.
- Double-swing gate Two gates swing in the same direction when activated. The electromagnet is fixed to the free end of one gate, and the armature is fixed to the free end of the other.
- 3. Sliding gate The gate slides instead of swings away from a fixed gate post. A typical installation has the electromagnet fixed to the gate post, and armature connected to the free end of the gate.
- B. Mount the electromagnet In most cases, the position of the electromagnet will determine the location of the armature plate. Make sure there is space to run the cable.
 - 1. Tack weld bracket into place. (Tack weld only.)
 - Dismount the electromagnetic lock from the bracket. Warning: Failure to remove electromagnetic lock will
 result in severe damage to lock. Weld 3 or 4 beads about 1" apart. Make sure not to weld the junction box.
 (See diagram for "No Weld" areas.)
 - 3. Remount the electromagnetic lock.





(Magnetic lock only)

- C. Mount the armature —
- 1. Once the electromagnet is mounted, determine the armature bracket location and tack weld into place. (Tack weld only.)
- Dismount the armature plate from the bracket. Warning: Failure to remove the armature plate from the bracket will damage the armature and rubber washer. Weld the armature bracket with 3 or 4 beads about 1" apart.
 Make sure not to weld near the set screw hole. (See mounting diagram for "No Weld" areas.)
- 3. Remount the armature.
- a. Put one rubber washer between two steel washers, and place them over the armature screw between the armature and the bracket. This will allow the armature to pivot slightly around the armature screw in order to compensate for gate misalignment.
- b. Make sure the guide pins are inserted into guide holes to prevent the armature from spinning.
- c. Do not overly tighten the armature against the bracket. The armature must be able to pivot around the armature screw.
- D. Run the wires The goal is to keep as little of the wires exposed as possible.
 - 1. Run the wires into an out-of-sight location as close as possible to the electromagnet.
 - 2. Use standard armored cable to prevent the wires from being cut between the electromagnet and the out-of-sight location.
- E. Connect the wires: Note: Unit is prewired for 12V operation. See Wiring Diagram below for more information.
 - 1. For 12V operation Connect the red and white wires to +12VDC, and the black and green wires to ground.
 - For 24V operation Connect the red wire to +24VDC, the green wire to ground, and then tie the white and black wires together and insulate.

IMPORTANT: Damage caused by improper connection will void warranty.

- F. Test the unit.
- G. Insert the tamper caps into the mounting screw access holes of the electromagnet. This should be the last step, as once the tamper caps are in place, they are difficult to remove.

Prewired 12VDC Red +12VDC Red (1) Red (2) Red (2) Red (2) Red (3) Red (4) Red (4) Red (5) Red (7) Red (7) Red (9) Red (9) Red (1) Re

Note: AC pigtail connector is included with the E-942FC-1K3SQ/E-942FC-600SQ for those applications where needed.

Mounting Diagram:



